

Figure 1A

C57BL/6 (Wild Type)

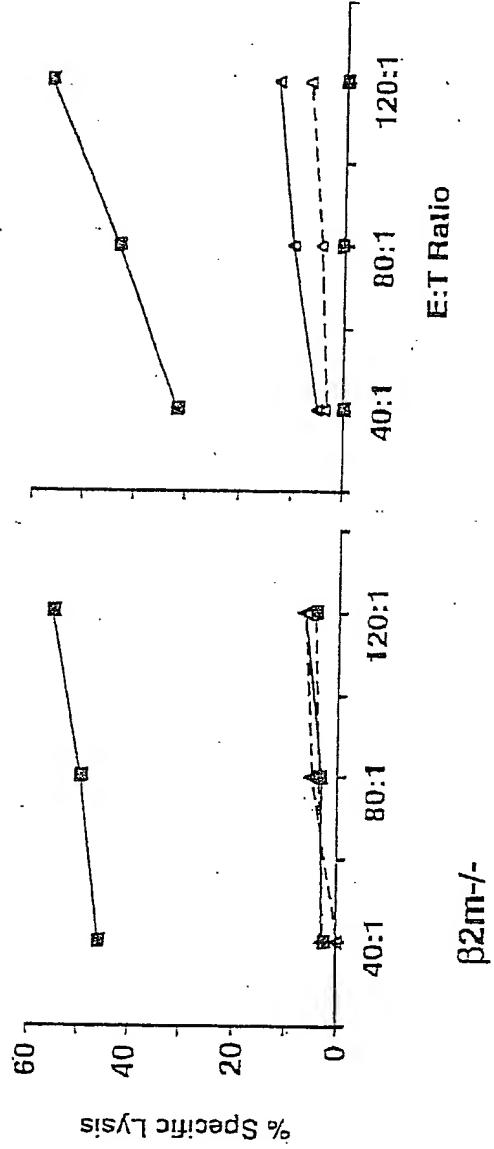


Figure 1B

CD4^{-/-}

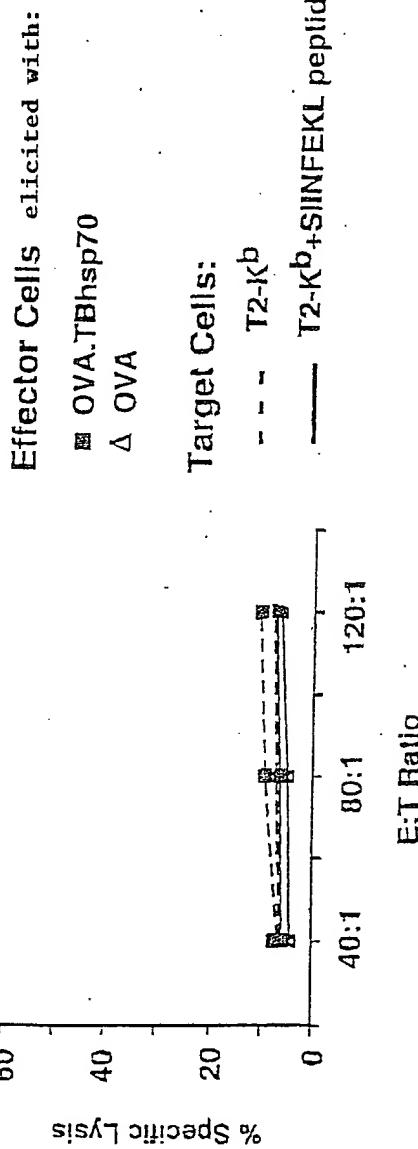
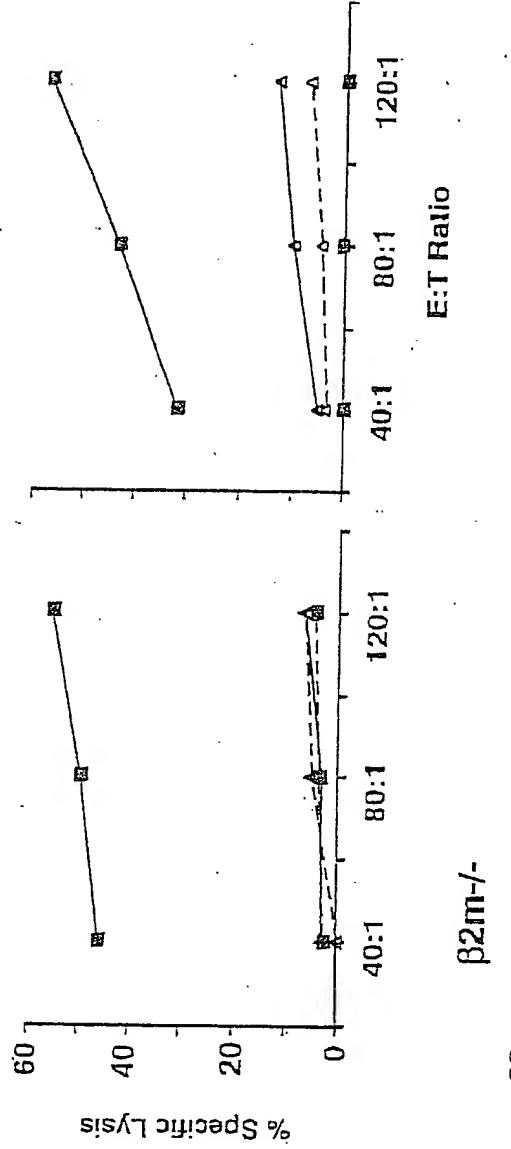


Figure 1C

Figure 2A

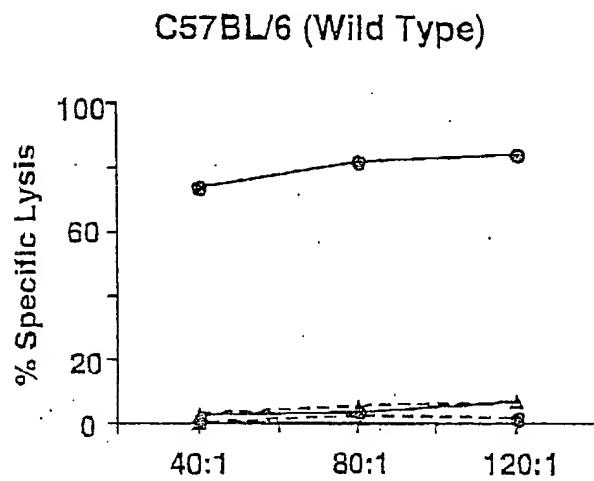
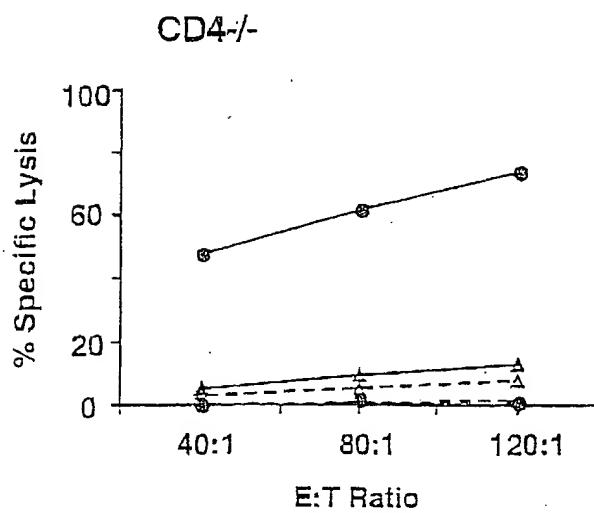


Figure 2B



Effectors Cells Target Cells:
elicited with:
● OVA.mhsp70 - - - T2-K^b
△ OVA — T2-K^b+SIINFEKL

Hsp70 Domains

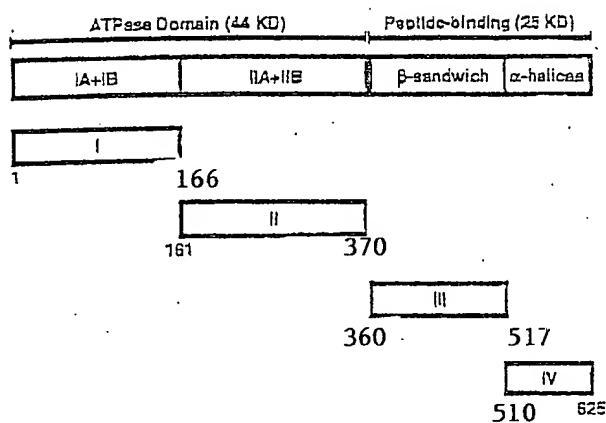


Figure 3

C57BL/6

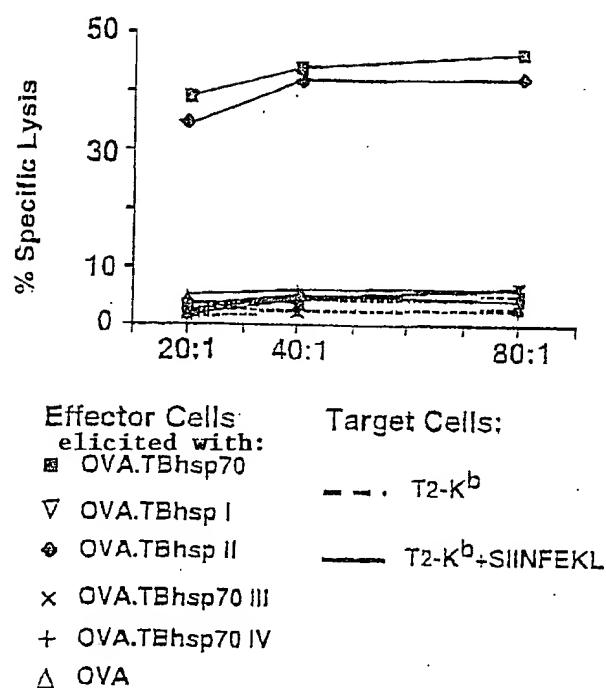


Figure 4

IKVSGLEQLESIYRYYGLLLKEAY
Ova ↑ ↑ αKG

Figure 5A

Hsp65 | P1

Figure 5B

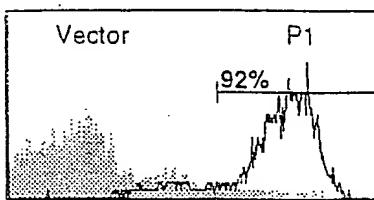


Figure 5C

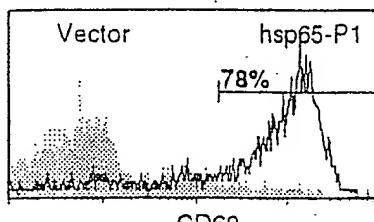


Figure 5D

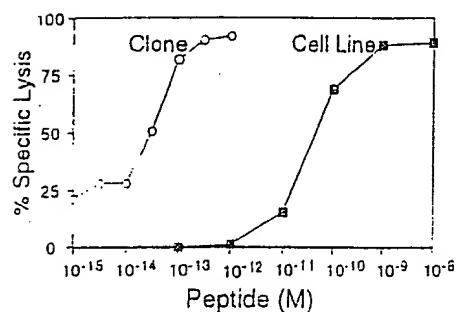


Figure 6A

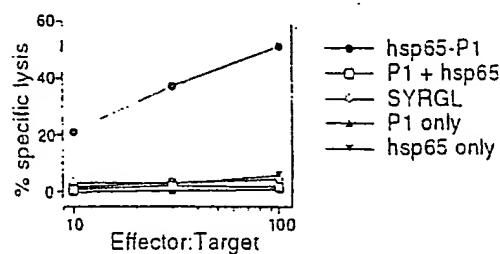


Figure 6B

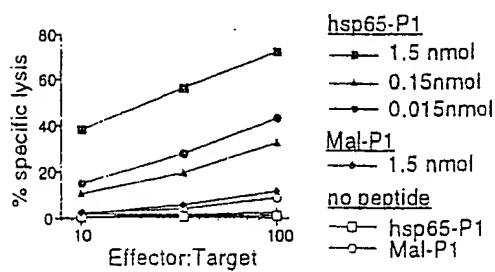
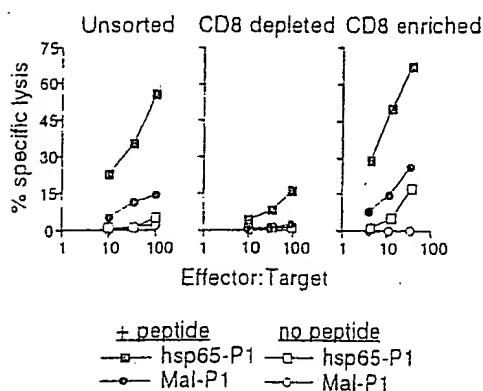


Figure 6C



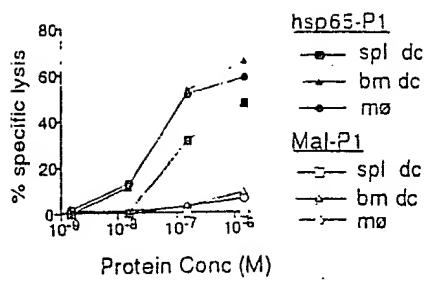


Figure 7

Figure 8A

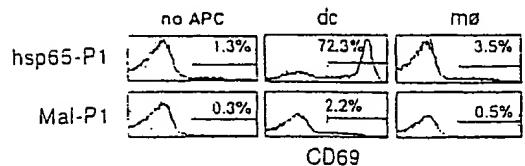


Figure 8B

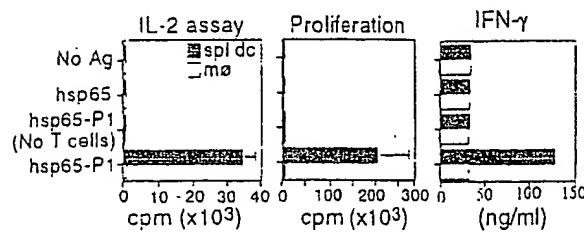


Figure 8C

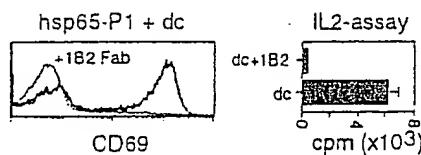


Figure 9A

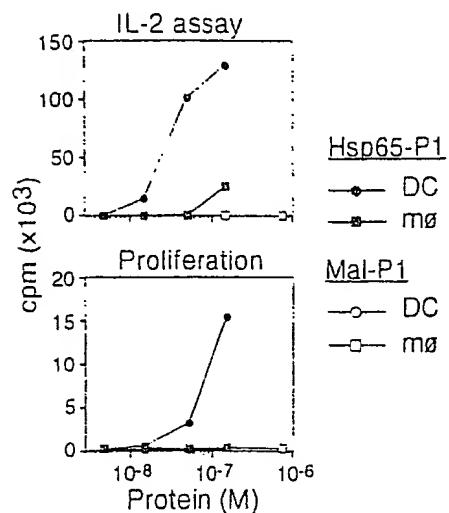


Figure 9B

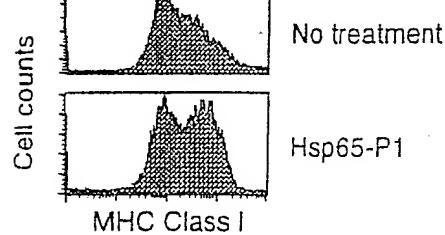
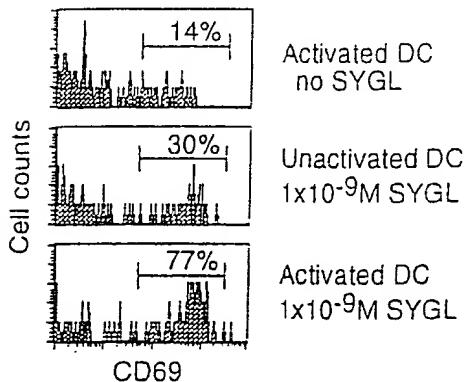


Figure 9C



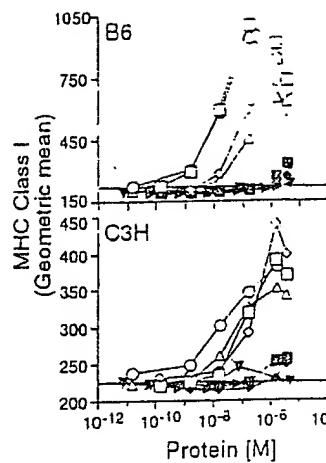


Figure 10A

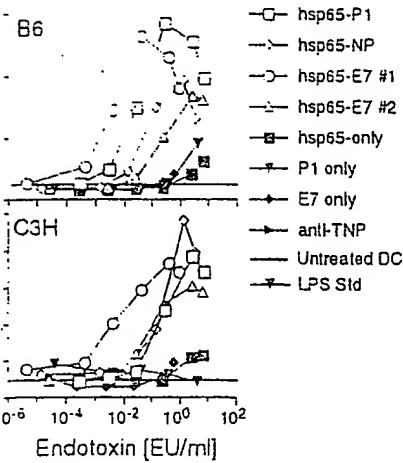


Figure 10B

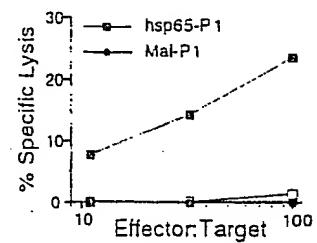


Figure 10C

TBhsp70 (cDNA) -> Translate • 1-frame

DNA sequence 1879 bp ATGGCTCTCTCG ... AGGCCAAGTGAC linear

1/1	31/11
ATG CCT CCT CGG GTC GGG ATC GAC CTC CGG AAC ACC AAC TCC GTC GTC TCG CTT CTC GAA	
M A R A V G I D L G T T N S V V S V L E	
61/21	91/31
GGT CGC GAC CGG GTC CTC CTC CCC AAC TCC GAG GGG TCC AGG ACC ACC ACC CGG TCA ATT GTC	
G G D P V V V A N S B G S R T T P S I V	
121/41	131/51
CGC TTC CCC CCC AAC CCT CGG CTG CTC CGG CGG CGG CGG CGC AAC AAC CAG GCA GTG ACC	
A F A R N G S V L V G Q P A K N Q A V T	
161/61	211/71
AAC GTC GAT CGC ACC CTG CGC TCG AAC CGA CAC ATG GGC AGC GAC TCG TCC ATA GAG	
N V D R T V R S V X R H M C S D W S I P	
241/81	271/91
ATT GAC CGC AAG AAA TAC ACC CGG CGG GAG ATC AGC GCC CGC ATT CTG ATG AAG CTG ARG	
I D C K X T A P E I S A R I L M K L K	
361/101	331/111
CGC GAC CGC GAG GGC TAC CTC CGT GAG GAC ATT ACC GAC GGC GTT ATC ACC AUG CGC CGC	
R D A E A Y L G E D I T D A V I T T P A	
361/121	391/131
TAC TTC ATT GAC CGC CGG CGT CGG GGC ACC AAG GAC GGC GGC CAG ATC GGC CGC CGC CGC	
Y F N D A Q S Q A T K D A C Q I A G L N	
421/141	451/151
GTC CTG CGG ATC GTC AAC GAG CGG ACC CGG CGC CGG CGC CGT GGC TAC GGC CGC CGC CGC	
V L R I V N E P T A A A L A V G L D K C	
481/161	511/171
GAG AAG GAG CGG CGA ATC CTG GTC TTC GAC TTG CCT CGT GGC ACT TTC GAC GGT TCC CTG	
E K E Q R I L V F D L O G S T F D V S L	
541/181	571/191
CTG GAG ATC CGC GAG CGG GTT GTC GTC CGT CCT ACT TCG CGT GAC AAC CGC CTC CGC	
L E I G E G V V E V R A T S G D N H L G	
601/201	631/211
GGC GAC GAC TGG CGC CGG CGT GTC GAT TGG CTG GTG GAC AAG TTC ARG GGC ACC AGC	
G D D W D Q R V V D N D V D S F X G T S	
661/221	691/231
GGC ATC GAT CTG CGC AAG GAC AAG ATG GCG ATG CAG CGG CTG CGG GAA GGC GGC GAG	
G I D L T K D R M A M Q R L R E A A E K	
731/241	751/251
CGA AAG ATC GAG CTG AGT TCG AGT CAG TCC ACC TCC ATC AAC ATC CTG CGC CGC ATC ACC GTC	
A K I E L S S S Q S T S I N L P Y I T V	
781/261	811/271
GAC CGC GAC AAG AAC CGG TTG TTC TTA GAC GAG CGG CTG ACC CGC CGG GAG TTC CAA CGG	
D A D K N P L F L D E Q L T R A E F Q R	
841/281	871/291
ATC ACT CGG GAC CTG CGT GAC CGC ACT CGG AAG CGG TTC CGG TCG GTG ATC GCT GAC ACC	
I T Q D L L D R T R R P F Q S V I A D T	
901/301	931/311
GGU ATT TCG GTG TCG GAG ATC GAT CGC CCT TTG CTC GTG CGT CGT CGT TCG ACC CGG ATG CGC	
G I S V E Z I D H V V D V G G S T R M F	
961/321	991/331
CGG GTG ACC GAT CTG GTC AAG GAA CGC ACC CGC GGC AAG GAA CGC AAC AAC GAG CGC CGC AAC	
A V T D L V K E L T G G X E P N R G V N	
1021/341	1051/351
CCC GAT GAG CGT GTC CGC CGT CGA CGC GCT CGT CGA CGC CGC CGC CGC CGC CGC CGC CGC	
P D E V V V A V G R A A D Q A G V L K G E V	
1081/361	1111/371
AAA GAC GTT CTG CGT CTT GAT GAT ACC CGG CGT CGC CCT ATC GAG ACC AAG CGC CGC CGC	
X D V L E L D V T P L S L G I E T K G G	
1171/381	1171/391
GTG ATG ACC AGG CTC ATC GAG CGG AAC ACC ACC ATG CCC ACC AAG CGG TCG GAG ACT TCC	
V M T R L I E R N T T I P T R S S E T F	
1201/401	1231/411
ACC ACC CGC GAC GAC AAC CAA CGG TCG GTG CGC ATC CGG GTC TAT CGG CGG GAG CGT GAG	
T V A D D N Q P S V Q T Q V Y Q G E R E	

Figure 11

TBhsp70 (cDNA) -> Translate • 1-frame

DNA sequence 1879 bp ATGGCTCGTccc ... AGCCCAAGTGAC linear

481/161 511/171
 GAG GAG GAG CPG CGA ATC CTG GTC TTC GAC TTG GGT CGT GGC ACT TTC GAC GTT TCC CTG
 S K E Q R I L V F D L C G G T F D V S L
 541/181 571/191
 CTG GAG ATC GGC GAG GGT GTG GTT GAG GTC TGT GGC ACT TCG CGT GAC AAC CAC CTC GGC
 L E I G E G V V E V R A T S G D M H L G
 501/201 631/211
 GGC GAC GAC TGG GAC CAG CCG CTG GTC GAT TGG CTG CTG GAC AAG TTC AAG GGC ACC AGC
 G D D W D Q R V V D W S V D K F X G T S
 661/221 691/231
 GGC ATC GAT CTG ACC AAG GAC AAG ATG GCG ATG CAG CGG CTG CGG GAA GGC GGC GAG AAG
 S I D L T R D R M A M Q R L R S A A E K
 721/241 731/251
 GCA AAG ATC GAG CTG AGT TCG AGT CAG TCC ACC TCG ATC AAC CTG CCC TAC ATC ACC GTC
 A K E S L S S S Q Z T S Z N S P Y T T V
 791/261 811/271
 GAC GCC GAC AAG AAC CCG TTG TTC TTA GAC GAG CGG CTG ACC CGC CGG GAG TTC CAA CGG
 D A D K N P L F L D E Q L T R A E F Q R
 841/281 871/291
 ATC ACT CAG GAC CTG CTG GAC CGG ACT CGC AAG CGG TTC CAG TCG CTG ATC CGT GAC ACC
 I T Q D L L D R T R S P F Q S V I A D T
 901/301 931/311
 GGC ATT TCG GTG TCG GAG ATC GAT CAC GTT GTG CTC CTG CGT GGT TCG ACC CGG ATG CGG
 G I S V S E I D H V V D V G G S T R M P
 961/321 991/331
 GCG GTG ACC GAT CTG GTC AAG GAA CTC ACT CGC CGC AAG GAA CGG AAC AAG CGG GTC AAC
 A V T D L V K E L T G G K E P W S G V N
 1021/341 1051/351
 CCC GAT GAG GTT GTC GCG GTG GGA CGC GCT CTG CAG CGC CCC CTC AAC AAG CGG GAG GTG
 P D E V V A V G A A L Q A G V D K G S V
 1081/361 1111/371
 AAA GAC GTT CTG CTG CTT GAT GTT ACC CGC
 K D V S L D V T P

Figure 12

murine hsp70.1 -> Translate • 1-frame

DNA sequence 1929 bp ATGGCCATGAAAC ... GAGGTGGATAG linear

31/11
 1/1 ATG GCC AAG AAC ACG GCG ATC GGC ATC GAC CTG GGC ACC ACC TAC TCG TGC GTG GCC GTG
 M A K N T A I G I D L G T T Y S C V G V
 91/31
 61/21 TTC CAG CAC GGC AAG GTG GAG ATC ATC GGC AAG GAC CAG GGC AAC CGC ACG ACC CCC AGC
 F Q H G K V E I I A N D Q G N R T T P S
 121/41 TAC GTG GCC TTC ACC GAC ACC GAG CGC CTC ATC CGG GAC GGC GCC AAG AAC CAG GTG GCG
 Y V A F T D T E R L I G D A A K N Q V A
 181/51 CTG AAC CCG CAG AAC ACC GTG TTC GAC GCG AAG CGG CTG ATC GGC CCC AAG TTC GGC GAT
 L N P Q N T V F D A K R L I G R K F G D
 241/81 GCG GTG CAG TCC GAC ATG AAG CAC TGG CCC TTC CAG GTG GTG AAC GAC GGC GAC AAG
 A V V Q S D M K H W P F Q V V N D G D K
 301/101 CCC AAG GTG CAG GTG AAC TAC AAG GGC GAG AGC CGG TCG TTC CGG GAC GAG ATC TCG
 P R V Q V N Y K O E S R S F P B E I S
 361/121 TCC ATG GTG CTG ACG AAG ATG AAG GAG ATC GCT GAG CGC TAC CTG GGC CCC CGG GTG ACC
 S M V L T K M K E I A S A Y L G H P V T
 421/141 AAC GCG GTG ATC ACG GTG CCC GGC TAC TTC AAC GAC TCT CAG CGG GAC ACC AAG GAC
 N A V I T V P A Y F N D S Q R Q A T K D
 481/161 GCG GGC GTG ATC GGC CGT CTA AAC GTG CTG CGG ATC ATC AAC GAG CCC ACG GCG GGC GGC
 A G V I A G L N V L R I E N E P T A A A
 541/181 ATC GCC TAC CGG CTG GAC CGG ACC GGC AAG GGC GAG CGC AAC GAC TCT GAC CGG ATC TTC GAC CTG
 I A Y G L D R T G K G E R N V L I F D L
 601/201 631/211
 661/221 691/231
 721/241 751/251
 781/261 811/271
 841/281 871/291
 901/301 931/311
 961/321 991/331
 1021/341 1051/351
 1081/361 1111/371
 1141/381 1171/391
 1201/401 1231/411
 1251/421 1291/431
 CCC AAC AAG CAG CAG ACC TTC ACC GAC TAC TCG GAC AAC GAG CCC CGG CTG CTG ATC
 P T R Q T Q T F T T Y S D N Q P G V L I

Figure 13A

murine nsp/0.1 -> Translate • 1-frame

1321/441 1351/451
CAG GTG TAC GAG CCC GAC ACG GCC ATG ACG CGC GAC AAC AAC CTG CTG CGG CGG TTC GAG
Q V Y E G E R A M T R D N N L L G R F E
1411/471
1381/461 1411/471
CTG AGC CGC ATC CCG CCG GCG CCC AGG GGC CTG CCG CAG ATC GAG GTG ACC TTC GAC ATC
L S G I P P A P R G V P Q I E V T F D I
1441/481 1471/491
GAC GCC ACG GGC ATC CTG AAC GTC ACG GGC ACC GAC AAG AGC ACC GGC AAG GCC AAC AAG
D A N G I L N V T A T D K S T G K A N K
1501/501 1531/511
ATC ACC ATC ACC AAC GAC AAG GGC CGC CTG AGC AAG GAG GAG ATC GAG CGC ATG GTG CAG
I T I T N D K G R L S K E E I E R M V Q
1561/521 1591/531
GAG GCC GAG CGC TAC AAG GCC GAG GAC QAG GTG CAG CGC GAC AGG GTG GCC CCC AAG AAC
E A E R Y K A E D E V Q R D R V A A K N
1621/541 1651/551
GCG CTC GAG TCC TAT GCC TTC AAC ATG AAG AGC GGC GTG GAG GAC GAG GGT CTC AAG GGC
A L E S Y A F N M K S A V E D E G L K G
1681/561 1711/571
AAG CTC AGC GAG GCT GAC AAG AAG GTC CTG GAC AAG TGC CAG GAG GTC ATC TCC TGG
K L S E A D K K K V L D K C Q E V I S W
1741/581 1771/591
CTG GAC TCC AAC ACG CTG GCC GAC AAG GAG GAG TTC CTG CAC AAG CGG GAG GAG CTG GAG
D S N T L A D K E E F V H K R E E L E
1801/601 1831/611
CGG GTG TGC AGC CCC ATC ATC AGT GGG CTG TAC CAG GGT GCG GGT GCT CCT GGG GCT GGG
R V C S P I I S G L Y Q G A G A P G A G
1861/621 1891/631
GCC TTC GGG CCC CAG GCG CGG CGG AAA GGA CCC TCT CCC TCA GGA CCC ACC ATC GAG GAG
G F G A Q A P P K G A S G S G P T I E E
1921/641
GTG GAT TAG
V D

Figure 13B

murine hsp70.1 -> Translate • 1-frame

DNA sequence 1929 bp ATGGCCAGAAC ... GAGGTGGATTAG linear

097645324042602

571/191
AAG GGC GAG CGC AAC CTG CTC ATC TTC GAC CGG
K G E R N V L I F D L
601/201 571/211
GGG GGC GGC ACG TTC GAC GAG TCC ATC CTG ACG ATC GAC GAC GGC ATC TTC GAG GTG AAG
G G G T F D V S I L T I D D G I F E V S
661/221 691/231
GCC ACG GCG GGC GAC ACG AAC CTG GCA GGG GAG GAC TTC GAC AAC CGG CTG GTG ACC AAC
A T A G D T H L G G E D F D N R L V S H
721/241 751/251
TTC GTG GAG GAG TTC AAG ACG AAC AAG AAG GAC ATC ACG CAG AAC AAG CGC GCG GTG
F V E E F K R K H K K D I S Q N R R A V
731/261 811/271
CGG CGG CTG CGC ACG CGG TGT GAG ACG GCC AAG ACG ACG CTG TCG TCC ACC ACC CAG GCG
R R L R T A C E R A K R T L S S S T Q A
841/281 871/291
ACG CTG GAG ATC GAC TGT CTG TTC GAG GGC ATC GAC TTC TAC ACA TCC ATC ACG CGG CGG
S L E I D S L F E G I D F Y T S I T R A
901/301 931/311
CGG TTC GAA GAG CTG TGC TCG AAC CTC TTC CGG CGC ACG CTG GAG CCC GTG GAG AAC CGC
R F E E L C S D L F R G T L E P V E K A
961/321 991/331
CTG CGC GAC GGC AAG ATG GAC AAG GCG CGG ATC CAC GAC CTG CTG GTG GGC GGC CGG
L R D A K M D K A Q I H D L V L V G G S
1021/341 1051/351
ACG CGC ATC CGC AAG GTG GAG AAC CTG CTG CAG GAC TTC AAC GGG CGC GAC CTG AAC
T R I P K V Q K L L Q D F F N G R D L N
1081/361 1111/371
AAC AGC ATC AAC CGG GAC GAG GCG GTG GCC TAC GGG CGG CGG GTG CGG CGC AAC CTG
E S I N P D E A V A Y G R A V Q A A I L
1141/381 1171/391
ATG GGG GAC AAG TCG GAG AAC GTG GAG GAC CTG CTG CTG CTG GAC CTG CGG CGC
M G D K S E N V Q D L L L D V A P

Figure 14